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	Application No.	Applicant(s)	
Notice of Allowability	10/699,827	SAKIHAMA ET AL.	
	Examiner	Art Unit	
	Zeev Kitov	2836	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED if or other appropriate commits (GHTS). This application is	n this application. If not included unication will be mailed in due course. <b>T</b> H	IIS tiative
1. This communication is responsive to <u>06/22/05</u> .			
2. The allowed claim(s) is/are <u>1 - 5, 7 - 9, 11, 12, 14 - 18</u> .			
3. The drawings filed on <u>04 November 2003</u> are accepted by	the Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul> Applicant has THREE MONTHS FROM THE "MAILING DATE"	e been received. e been received in Applicati cuments have been receive	on No d in this national stage application from th	
noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	ENT of this application. itted. Note the attached EX	AMINER'S AMENDMENT or NOTICE OF	
<ul> <li>6. CORRECTED DRAWINGS (as "replacement sheets") mus</li> <li>(a) including changes required by the Notice of Draftspers</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1)</li> </ul>	st be submitted. son's Patent Drawing Revie . s Amendment / Comment o	w ( PTO-948) attached r in the Office action of he drawings in the front (not the back) of	
each sheet. Replacement sheet(s) should be labeled as such in to a DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT	ERIAL must be submitted. Note the	
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No. 8), 7. ☐ Examiner's	oformal Patent Application (PTO-152)  ummary (PTO-413),  /Mail Date  Amendment/Comment  Statement of Reasons for Allowance	

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## **REASONS FOR ALLOWANCE**

Examiner acknowledges a submission of the amendment and arguments filed on June 22, 2005. Claim 6 is deleted; Claim 1 is amended. Amendment and arguments have overcome rejections under 102 (b) and 103(a).

The following is an examiner's statement of reasons for allowance:

An amended independent Claim 1 discloses, inter alia, a clamp circuit connected to the first pad and the second pad, and a control circuit, which renders the clamp circuit conducting when the same potential as applied to the second pad is applied to the third pad before the semiconductor integrated circuit is incorporated into an end product, and to render the clamp circuit non-conducting when a predetermined potential is applied to the third pad after the semiconductor integrated circuit is incorporated into the end product.

The closest reference for the claim is Ma, which discloses some elements of the claim, such as: the control circuit is configured to render the clamp circuit conducting when the same potential as applied to the second pad is applied to the third pad before the semiconductor integrated circuit is incorporated into an end product and to render the clamp circuit non-conducting when a predetermined potential is applied to the third pad after the semiconductor integrated circuit is incorporated into the end product. It further discloses the first pad and the second pad coupled in accordance with the claim. However, while the claim language states: "a clamp circuit connected to the first pad

and the second pad", the reference discloses the clamp circuit connected between the first pad and the second pad. Additionally, the clamp of the reference can not be considered as permanently connected to the second pad (Vcc terminal), due to a presence of since some active parts between the clamp and the terminal, such as switching transistor 22 in Fig. 5, which makes the connection conditional on its state.

Another close reference is Chittipeddi et al. (US 6,556,409), which discloses the second pad (the ground pad), while the first pad may be inherent in the structure, as the power supply pad Vcc. It further discloses the third pad (JTAG interface, col. 5, lines 34 - 47). Before incorporation of the reference circuit into the end product, when the same potential as applied to the second pad (zero potential of the ground), the circuit can be activated when ESD event occurs, since for activation of the clamp, or "to "render the clamp conductive" (clamp is the element 213 in Fig. 2A) the ESD potential or some other external overstress potential should be additionally applied. After incorporation into thee end product, the circuit is not conductive. This way of functioning is different from Claim 1 of the Application, wherein the control signal plays an active role in the rendering the clamp either conductive or non-conductive. According to American Heritage Dictionary, the word "rendering" stands for "to direct the execution of". Therefore, the control signal rendering the clamp either conductive (without necessity for an external additional signal) before incorporation into the final product, or nonconductive after incorporation into the final product of Claim 1 is different from the way of functioning of the reference circuit.

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Since the Claim 1 is the only independent Claim, the Application is in condition for Allowance.

Allowability resides, at least in part, in the above-described limitations, which has not been disclosed in the Prior Art in a search.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zeev Kitov whose telephone number is (571) 272-2052. The examiner can normally be reached on 8:00 – 4:30. If attempts to reach examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571) 272 – 2800, Ext. 36. The fax phone number for organization where this application or proceedings is assigned is 571–273–8300 for all communications.

Z.K. 07/07/2005

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800